

28287

S/076/61/035/010/004/015

B101/B110

Kinetics of the electrochemical ...

saturated with the respective gas mixture ($H_2 : N_2 = 2 : 1$; $O_2 : N_2 = 1 : 2$; $H_2 : O_2 = 2 : 1$) at atmospheric pressure and 20°C. For the preparation of gas mixtures and electrolytes, see Ref. 11. After the desired potential was attained by polarization, the gas volume that entered reaction within 30 min or 1 hr was determined by the level of the liquid in the burette D at the beginning and end of the experiment. The rate ω (cm³/hr) of the electrochemical reaction was measured as a function of the potential φ . The following was found: (1) ω_{H_2} in 1 N H_2SO_4 amounted

to ~1 cm³/hr between 0.15 and 0.8 v. On a passivated anode (0.9-1.4 v), ω_{H_2} still was 50-30% of the maximum rate, and thus was higher than had been found in Ref. 11 by polarography. The oxidation of H_2 on a passivated electrode was assumed to take place by interaction with chemisorbed O_2 which was either set free electrochemically or entered from the gaseous phase (in case of oxyhydrogen gas). (2) ω_{O_2} was twice as high in acid solu-

tions as in alkaline ones. The values based on gas consumption agreed with those based on current consumption. (3) The rate of reaction of oxyhydrogen
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26207

S/076/61/035/010/004/015

B101/B110

Kinetics of the electrochemical ...

gas depended on the electrode potential, on the type of anion, and on the pH of the solution. In case of a steady potential ($i = 0$), the "combustion" rate of oxyhydrogen gas in 1 N H_2SO_4 ($\varphi = 0.6-0.8$ v) approaches the maximum rate, and is almost twice that in 1 N $HClO_4$, and three times that in 1 N KOH (φ_{HClO_4} and $\varphi_{KOH} = 0.8$ v). The assumption that H_2 ionization and O_2 reduction in oxyhydrogen gas take place independently of each other is valid with restrictions (for KOH, and in part also for $HClO_4$). In general, these processes exert a reciprocal influence, and give rise to either an increase of the rate (with H_2SO_4) or to an inhibition of H_2 ionization (with $HClO_4$). G. A. Petrov assisted in the work. There are

7 figures and 16 references: 9 Soviet and 7 non-Soviet. The two most recent references to English-language publications read as follows: M. J. Joncich, N. Hackerman, J. Phys. Chem., 57, 674, 1953; J. M. Kolthoff, J. Jordan, J. Amer. Chem. Soc. 74, 570 and 4801, 1952.

SUBMITTED: February 11, 1960

W

Card 3/4

ROZENTAL', K.I.; VESELOVSKIY, V.I.; Prinimal uchastiye: PETROV, G.A.
(Moscow)

Kinetics of the electrochemical oxidation and reduction of
H₂O₂ and oxyhydrogen on an Au electrode in N H₂SO₄ solution.
Zhur.fiz.khim. 35 no.11:2481-2486 N '61. (MIRA 14:12)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.
(Hydrogen)
(Oxygen)
(Oxidation-reduction reaction)

ROZENTAL', K.I.; VESELOVSKIY, V.I. (Moscow)

Mechanism of electrochemical evolution of oxygen on a silver cathode studied with the aid of O^{18} oxygen isotope. Zhur.fiz. khim. 35 no.12:2670-2675 D '61. (MIRA 14:12)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.
(Silver oxide) (Electrochemistry) (Oxygen—Isotopes)

MAZITOV, Yu.A.; ROZENTAL¹, K.I.; VESELOVSKIY, V.I.

Ionization of oxygen over palladium. Dokl. AN SSSR 148 no.18
152-155 Ja '63. (MIRA 16:2)

1. Fiziko-khimicheskiy institut im. L.Ya. Karpova. Predstavлено
академиком A.N. Frumkinym.
(Oxygen) (Ionization) (Electrodes, Palladium)

MAZITOV, Yu.A.; ROZENTAL', K.I.; VESELOVSKIY, V.I. (Moscow)

Anodic formation and cathodic removal of oxides on palladium.
Zhur. fiz. khim. 38 no.1:151-155 Ja'64. (MIRA 17:2)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.

MAZITOV, Yu.A.; ROZENTAL', K.I.; VESLOVSKIY, V.I.

Oxygen ionization on a silver electrode in alkaline solution.
Elektrokhimiia i no.1;36-40 J '65. (MIRA 18:5)

I. Nauchno-issledovatel'skiy fiziko-khimicheskiy institut im. L.Ya.
Karpova, Moskva.

L 43367-55 EWT(m)/EWI(m)/T

20

19 B

ACCESSION NR: AP5007748

S/0364/65/001/001/0036/0040

AUTHOR: Mazitov, Yu. A.; Rozental', K. I.; Veselovskiy, V. I.

TITLE: Ionization of oxygen at the silver electrode in alkali solutions

SOURCE: Elektrokhimiya, v. 1, no. 1, 1965, 36-40

TOPIC TAGS: ionization, oxygen, cathode polarization

ABSTRACT: The reduction of oxygen at silver microelectrodes in concentrated base solutions was studied at various temperatures. The polarographic method was used. The electrodes were imbedded in glass and consisted of pieces of silver wire 0.5 mm in diameter with a visible surface of about 0.1 cm^2 . A three electrode cell provided with a jacket for thermostatic control made it possible to take polarographic relationships using a potentiostat with the simultaneous passage of a gas into the electrolyte. Mixing was accomplished with a magnetic stirring rod made of a magnet covered with glass or polyethylene. An ultrathermostat having an accuracy of $\pm 0.1^\circ\text{C}$ was used for thermostatic control. The comparison electrode was a hydrogen palladium electrode in a basic solution of the same concentration at 22°C . The

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L 48967-65

ACCESSION NR: AP5007748

electrolyte was KOH from the "Kal'baum" firm or a highly pure KOH solution with a content of $2.4 \cdot 10^{-5}$ iron, $7 \cdot 10^{-4}$ chlorides, and $5 \cdot 10^{-2}$ mercury. Before the tests the electrolyte was further purified by prolonged cathode polarization at a large platinum electrode in a hydrogen atmosphere although the results did not change if such purification was not done. The potential recorder for the potentiostat was an LR-55 polarograph. The potential of the electrode was checked with a cathode millivoltmeter having an input resistance on the order of $10^{11} \Omega$ with an accuracy of 2 millivolts. The current was recorded automatically on the tape chart of an EPP-09 electronic potentiometer. Depending on the condition of the silver electrode surface the polarographic curves could have one or two waves. Orig. art. has: 5 figures.

ASSOCIATION: Fiziko-khimicheskiy institut imeni L. Ya. Karpova (Physical Chemical Institute)

SUBMITTED: 10Jun64

ENCL: 00

SUB CODE: GC

NO REF SOV: 009

OTHER: 001

TP
Card 2/2

MAZITOV, Yu.A.; ROZENTAL', K.I.; VESLOVSKIY, V.I.

Ionization of oxygen at a three-phase boundary in alkaline
solutions. Zhur. fiz. khim. 38 no.2:449-455 F '64.

(MIRA 17:8)

I. Fiziko-khimicheskiy institut imeni Karpova.

MAZITOV, Yu.A.; ROZENTAL', K.I.; VESELOVSKIY, V.I. (Moscow)

Ionization of oxygen at a three-phase boundary in alkaline
solutions. Zhur. fiz. khim. 38 no.3:697-701 Mr '64.

(MIRA 17:7)

l. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.

ROZENTAL' K. M.

USSR / Microbiology. Microbes Pathogenic for Man and
Animals. Bacteria. Hemophilus Bacteria.

F

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24068

Author : Rozental', K. M.; Savel'vol'f, G. B.
Inst : Institute of Experimental Medicine, AMS USSR
Title : On Characteristics of Whooping-Cough
Agglutinogen. On Immunogenic Properties of
Agglutinogen

Orig Pub : Yezhegodnik. In-t eksperim. med. AMN SSSR,
T.2 (M), 1957, 388-392

Abstract : Immunogenic properties of whooping-cough
agglutinogen (A) of 1st phase microbes were
evaluated. In the first series of experiments,
mice were immunized subcutaneously with A and
in parallel with boiled whooping-cough vaccine.
The animals were infected by means of

Card 1/3

USSR / Microbiology, Microbes Pathogenic for Man and Animals. Bacteria. Hemophilus Bacteria. F

Abs Jour : Ref Zhur - Biologiya, No 6, 1959, No. 24068

infection with live culture. However, the preventive properties of serum obtained in immunization with microbe suspension were higher. In the last series of experiments, the ability of A to extract preventive antibodies from sera which were obtained by means of immunization with the suspension of live culture, was determined. It was established that in utilizing great doses of A, the serum titer decreased 8 times and lost, to a considerable degree, its ability to immunize the mice in intranasal infection.

Card 3/3

ROZENTAL', K.M.; SAVEL'VOL'F, G.B.

Study of the properdin system. Report No.1: Simplified method
for the determination of properdin. Biul.ekspr.biol.i med. 48
no.11:122-126 N '59. (MIRA 13:5)

1. Iz otdela mikrobiologii (zav. - prof. V.I. Ioffe) Instituta
eksperimental'noy meditsiny AMN SSSR, Leningrad. Predstavlena
deystvitel'nym chlenom AMN SSSR N.N. Anichkovym.
(PROPERDIN chem.)

MARMIR, Ya.N.; ROZENTAL', K.M.

Clinical significance of serological investigations in rheumatism;
c fever. Terap. arkh. 31 no.2:30-37 F '59. MIRA 12:1)

1. Iz kliniki vnutrennikh bolezney (zav. - prof. M.Ya. Ar'yev)
Leningradskogo meditsinskogo stomatologicheskogo instituta i otdela
mikrobiologii (zav. - prof. V.I. Ioffe) Instituta eksperimental'noy
meditsiny.

(RHEUMATISM, immunol.
serol. aspects (Rus))

ROZENTAL', K.M.; KOPYTOVSKAYA, L.P.

A study of the etiology of measles. Report No.1: Isolation of the measles virus by direct inoculation of a chick embryo. Vop.virus. 6 no.5:572-577 S-0 '60. (MIRA 14:7)

1. Otdel mikrobiologii Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.

(MEASLES)

Dept. Children's Diseases, Pasteur Inst., (-1944-)

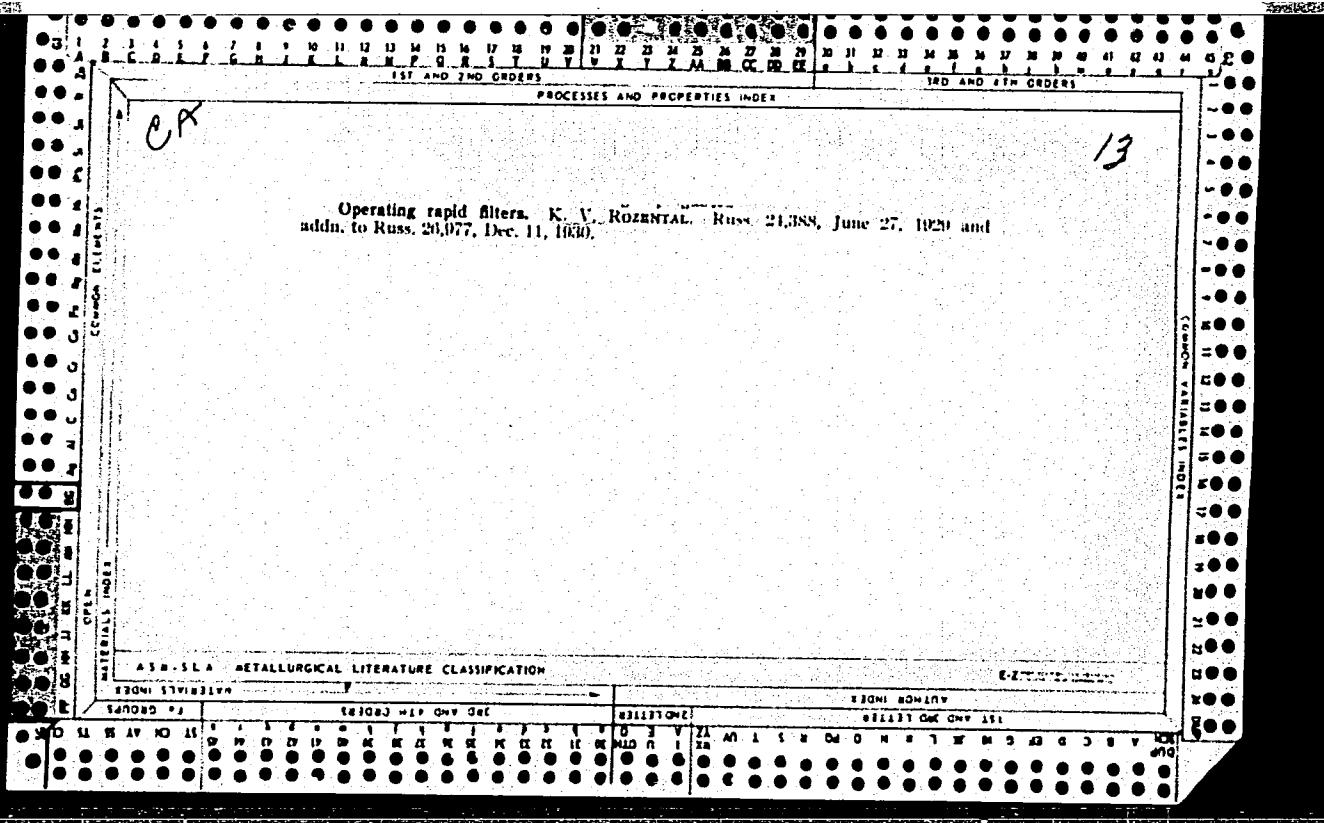
Leningrad Branch VIEM, All-Union Inst. Exptl. Med., (-1944-)

"On microbe's "indications of the State" and their role in the microbiological analysis of infectious process."

Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 3, 1944.

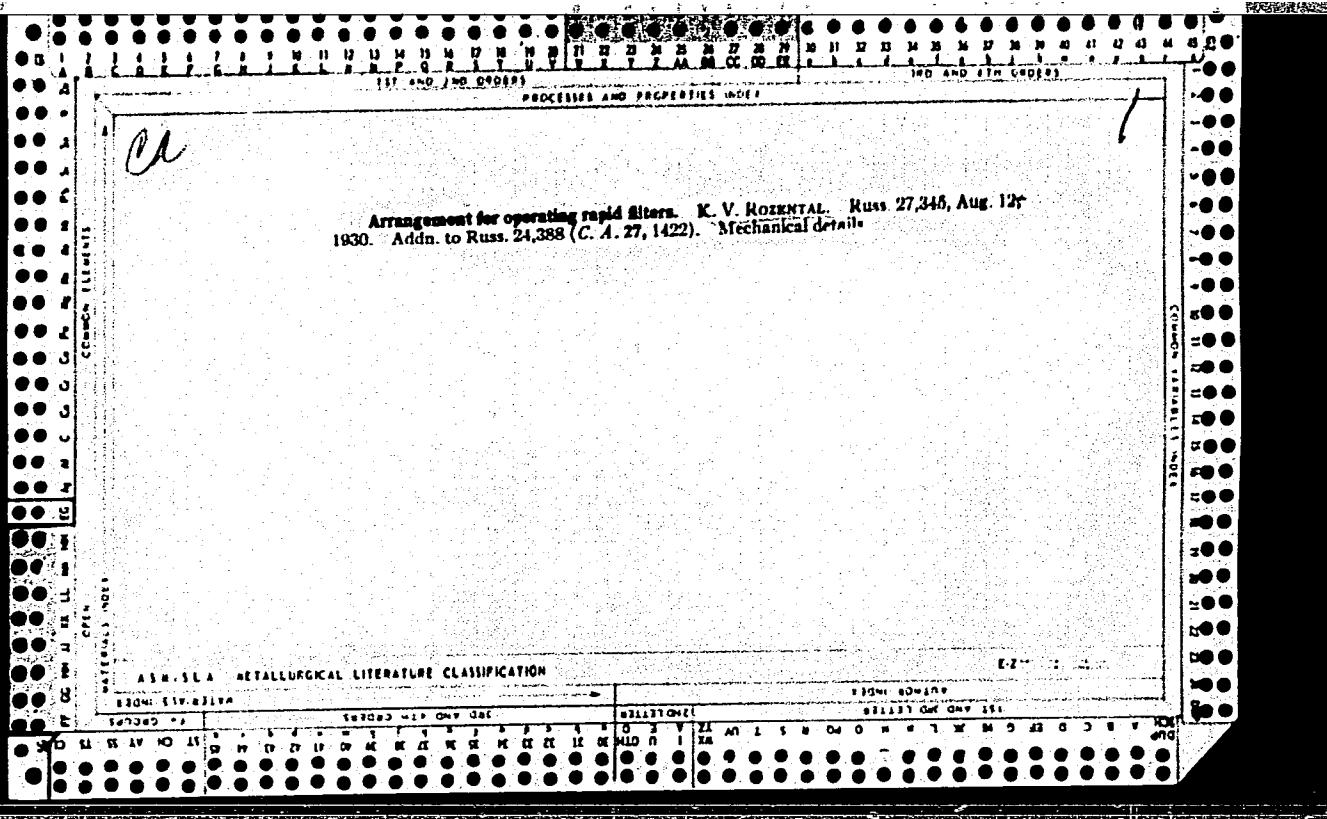
"APPROVED FOR RELEASE: 07/13/2001

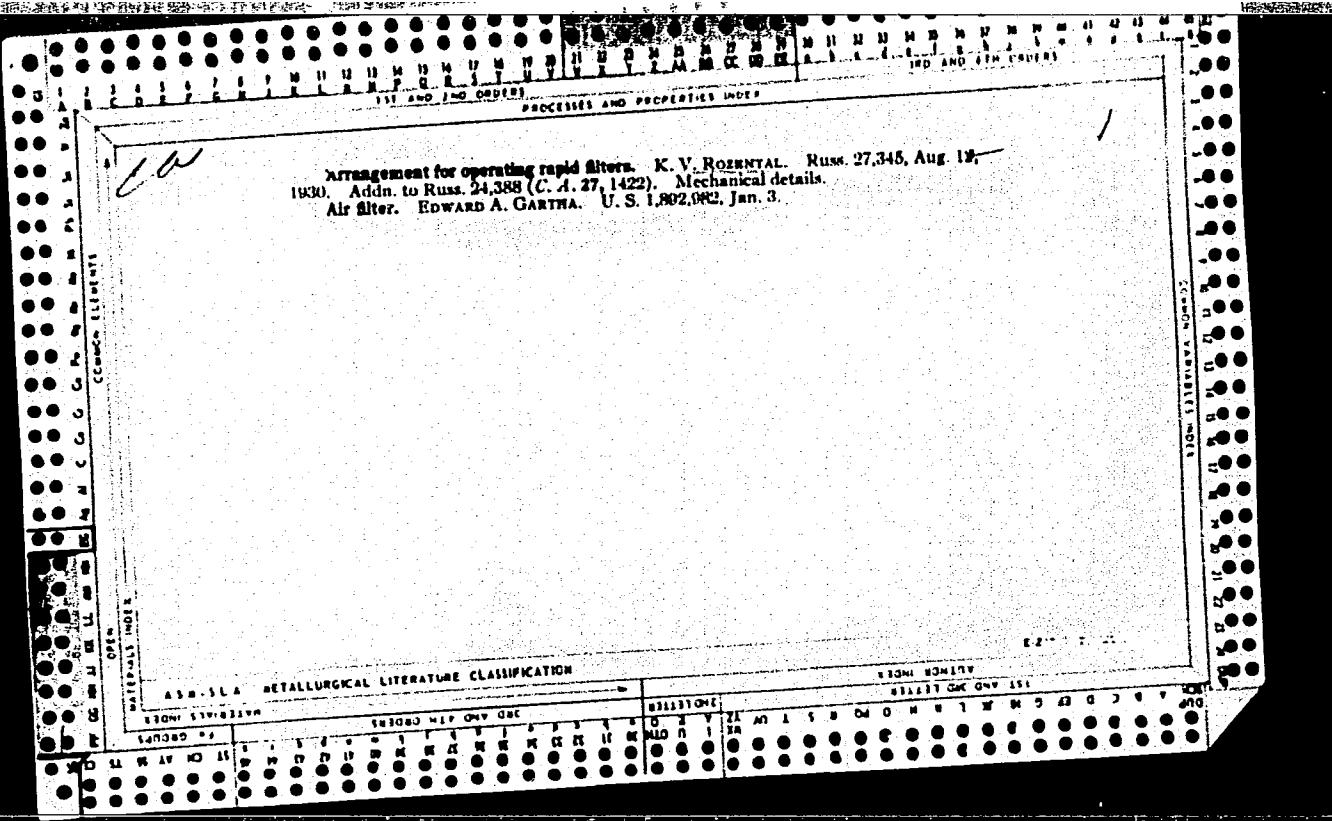
CIA-RDP86-00513R001445620020-7

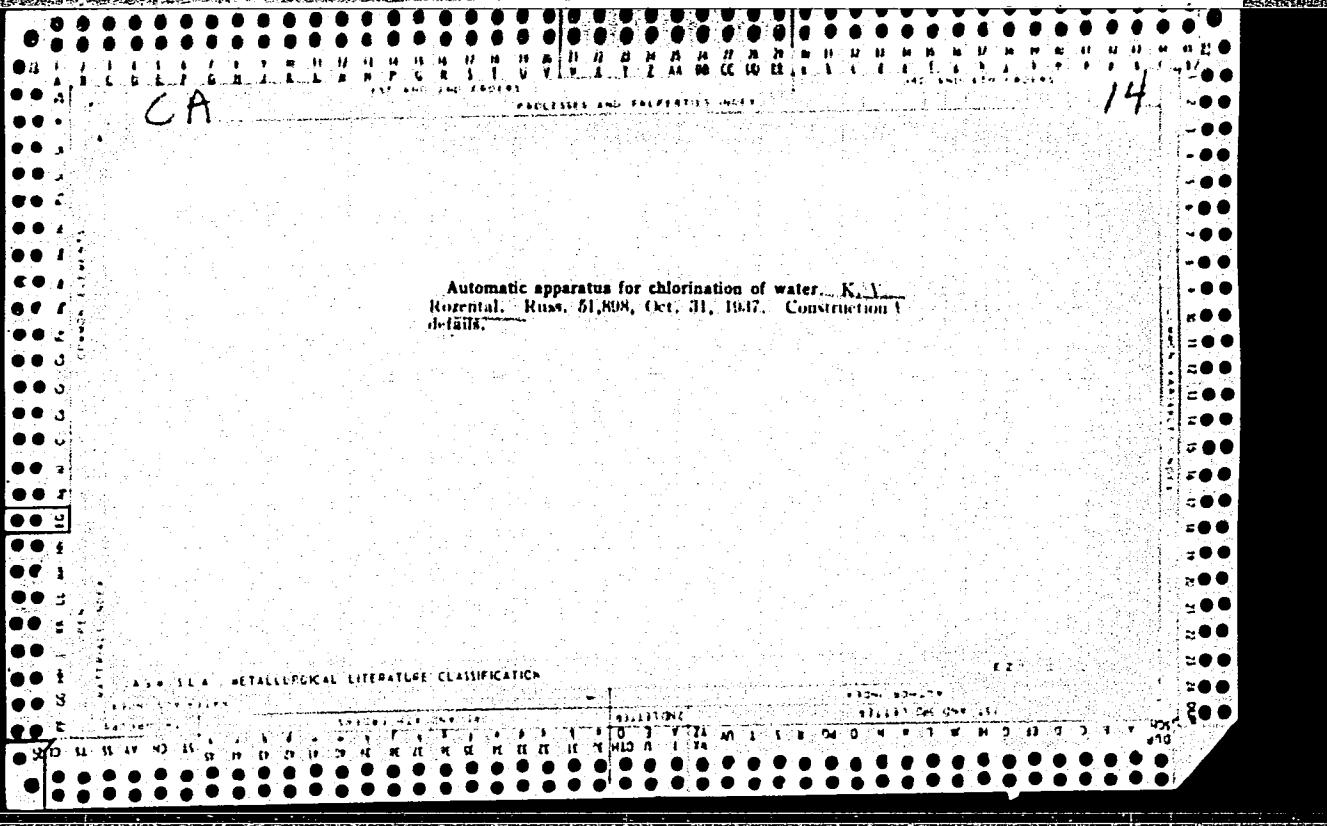


APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001445620020-7"







POLAND/Analytical Chemistry. Analysis of Organic
Substances.

E-3

Abs Jour : Ref Zhur - Khimiya, No 2, 1959, No 4380

Author : Rozental, L.

Inst : Not given

Title : Effect of the Combustion [sic] Method on the Nitrogen
Determination by the Kjeldahl Method

Orig Pub : Roczniki Panstw Zakl Hig, 2, No 2, 183-197 (1958)

Abstract : On the basis of the investigation of the determination of N
in metabolism products, the following analytical method is
proposed: a 1-10 gms sample of the substance to be analyzed
is refluxed in a Kjeldahl flask with 1 gm of yellow HgO (I)
7.5 gms K_2SO_4 (II), and 20 ml of conc H_2SO_4 until the color
disappears and then for an additional 20-30 min. The volume
of the solution is adjusted with water to 100 ml; 50 ml of

Card 1/2

37

Rozental', L. L.

56-3-46/59

AUTHORS: Yemel'yanov, A.A., Rozental', I.L.

TITLE: On the Part Played by Nucleons in the Processes of the Multiple Production of Particles (O roli nuklonov v protsessakh mnoghestvennogo obrazovaniya chastits) (Letter to the Editor)

PERIODICAL: Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 3 (9), pp. 808 - 809 (USSR)

ABSTRACT: In the processes of the simple production of particles on the occasion of collisions of nucleons of high energy with nuclei the nucleons play a special part with respect to the mesons. Apart from the conservation of the nuclear charge and the mass difference between nucleons and mesons, a less distinctly marked peculiarity must be pointed out, which manifests itself mainly in connection with the hydromechanical description of the phenomenon. At energies of the primary nucleon of $E_0 = 10^{12} - 10^{13}$ eV the temperature of the hydrodynamical stage of expansion amounts to 1 to 2 Mc^2 (M - mass of the nucleon), in which case $T \gg \mu c^2$ (μ - mass of the pion). At these energies the probability of the creation of nucleon - antinucleon pairs during the entire duration of the processes is very low. The authors here

Card 1/3

56-3-46/59

On the Part Played by Nucleons in the Processes of the Multiple Production of
Particles

the shape $E_k/E \sim E^{-1/15}$. It further applies that $E_k \sim v^{-0.4}$
(v - volume). There are 4 Slavic references.

ASSOCIATION: Physics Institute imeni P.N. Lebedev AN USSR
(Fizicheskij institut imeni P.N. Lebedeva Akademii nauk SSSR)

SUBMITTED: June 20, 1957

AVAILABLE: Library of Congress

Card 3/3

ROZENTAL', L.V.; AVERBUKH, Z.K.; BURDYGINA, G.I.; MUKOVNINA, A.F.;
STRYUKOVA, V.V.

Black anti-halation layer for color films. Usp. nauch. fot. 8
(MIRA 17:7)
67-71 '62.

ROZENTAL', L.V.; BELYANINA, Ye.T.; Prinimali uchastiye: CHIKISHEVA, L.I.;
SHLENEVA, N.S.
Plasticization of cellulose triacetate films. Plast.massy no.11:
6-8 '61. (MIRA 14:10)
(Cellulose acetate) (Plasticizers)

Rozental, L.V.

USSR/Chemical Technology - Chemical Products and Their
Application. Photographic Materials.

I-6

Abs Jour : Ref Zhur - Khimiya, No 1, 1958, 2425

Author : Rozental', L.V., Iordanskiy, A.N.

Inst :

Title : Black Antihalo Counterlayer of Color Motion Picture Films.

Orig Pub : Tekhnika kino i televideniya, 1957, No 7, 63-72

Abstract : Description of the properties of a black antihalo counter-layer consisting of a dispersion of finely dispersed carbon black having high colloidal stability, in cellulose acetophthalate. It is reported that deposition of such a counterlayer on the backing results in a sharp increase of the resolving power of the film without lowering its photographic, physical and mechanical characteristics.

Card 1/1

S/080/62/035/011/007/011
D287/D307

AUTHORS: Rozental', L.V., Zhurnina, F.G., and Smirnov, O.K.

TITLE: The plasticizing effect of compounds which act as solvents for cellulose triacetate.

PERIODICAL: Zhurnal prikladnoy khimii, v. 35, no. 11, 1962,
2512 - 2520

TEXT: The solvent action of phenylethyl phenols and of some of their derivatives (esters of fatty acids and fatty alcohols) was studied. Films of partially saponified cellulose triacetate, containing approximately 60 % bound acetic acid and having an average degree of polymerization of 350 were used during the experiments. The phenylethyl phenols were prepared by condensing phenol and styrene in the presence or absence of H_2SO_4 in toluene. A mixture of o-and p-isomers as well as the di-dubstituted compound 2,4 - di (α -phenylethyl phenol) were obtained during both methods of synthesis. The isomers were separated by repeated rectification and crystallization of the p-isomer. It was found that compounds containing an

Card 1/2

The plasticizing effect of ...

S/080/62/035/011/007/011
D287/D307

unsubstituted hydroxy group in the phenyl nucleus acted as solvents for cellulose triacetate. The plasticizing effect of compounds which have a low degree of compatibility is greater than that of plasticizers soluble in cellulose triacetate; this is improved by reduced brittleness of the film, especially at low temperatures (at -60°C). The authors suggest that plasticizing compounds with different degrees of compatibility with cellulose triacetate as well as discrepancies between the specific weight of the films account for the above phenomenon. The slight effect of plasticizers (which are completely compatible with cellulose triacetate) at low temperatures is also due to the strong interactions between the hydroxyl groups of the partly saponified cellulose triacetate and the polar groups of the plasticizer, i.e. the hydroxy groups of the phenylethyl phenols. There are 6 tables.

SUBMITTED: June 2, 1961

. Card 2/2

ROZENTAL', L.V.; ZHURINA, F.G.; SMIRNOV, O.K.

Plasticizing action of compounds dissolving cellulose triacetate.
Zhur.prikl.khim. 35 no.11:2512-2520 N '62. (MIRA 15:12)
(Cellulose acetate) (Plasticizers).

L-33507-66 EWT(m)/T/EWP(j) IJP(c) WW/JW/RM

ACC NR: AP6018129 (A) SOURCE CODE: UR/0191/66/000/006/0053/0055

AUTHOR: Rozental', L. V.; Minyaylo, S. A.; Suchkova, O. M.

ORG: none

TITLE: Certain potentialities of the thermomechanical method

SOURCE: Plasticheskiye massy, no. 6, 1966, 53-55

TOPIC TAGS: thermomechanical property, ~~measuring apparatus~~, elastic deformation, cellulose plastic, plasticizer, LABORATORY INSTRUMENT.

ABSTRACT: Apparatus for themomechanical studies on films was developed and tested. The apparatus comprises an electromechanical arrangement for linearly changing temperature with time, and an optical (photographic) arrangement for recording deformation measured with a cathetometer. Work may be done in air or under nitrogen. Tests were run on cast cellulose tracetate films. The obtained thermomechanical curves showed the degree of anisotropy of the mechanical properties (deformation) in cellulose triacetate. The effect of different amounts of different stearate plasticizers was also evaluated. It was confirmed that the effectiveness of a plasticizer can be evaluated not only by the degree of glass

Card 1/2

UDC: 678.544.43-416.017:620.172.251.22

L 38507-66

ACC NR: AP6018129

state. M. S. Ivanov, A. A. Lapauri and M. B. Meyerzon participated in developing the equipment. Orig. art. has: 6 figures and 1 table.

SUB CODE: 07, 20/ SUBM DATE: none/ ORIG REF: 002/ OTH REF: 011

Card 2/2 *elb*

L 05-05=07 24.1(1)/EW(1) A1
ACC NR: AP6030902 (A,N) SOURCE CODE: UR/0080/66/039/008/1837/1844

AUTHOR: Zolin, V. M.; Rozental', L. V.; Smirnov, O. K.

27
B

ORG: none

TITLE: Plasticization of cellulose triacetate films by substituted esters of orthosilicic acid

SOURCE: Zhurnal prikladnoy khimii, v. 39, no. 8, 1966, 1837-1844

TOPIC TAGS: plasticizer, cellulose plastic, organosilicon compound

ABSTRACT: The purpose of the study was to find substituted esters of orthosilic acid (OSA) having both a high resistance to hydrolysis and a satisfactory compatibility with cellulose triacetate, in order to obtain plasticizers for cellulose triacetate films. Monosubstituted esters of OSA containing various groups forming the -Si-C- bond as well as alkoxy groups of various lengths and structures of hydrocarbon radicals were synthesized. The main factor determining the hydrolytic stability of the esters was found to be the size and structure of the hydrocarbon radical of the alkoxy group. The compatibility of the substituted esters with partially saponified cellulose triacetate depends on both the length and structure of the alkoxy radicals and on the structure of the radicals linked directly to the silicon atom. Some of the synthesized substituted esters of OSA effectively lower the brittleness of films from

Card 1/2

UDC: 66.063.72

L 08458-67

ACC NR: AP6030902

partially saponified cellulose triacetate obtained by acetylation under heterogeneous conditions. Orig. art. has 9 tables.

SUB CODE: 07/ SUBM DATE: 03Jul64/ ORIG REF: 012

Card 2/2 *cgl*

ROZENTAL', L.V.

Certain regularities in the plasticization of cellulose triacetate
films. Vysokom.sod. 3 no.9:1406-1409 S '61. (MIRA 14:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy kino-fotoinstitut.
(Cellulose acetate)

ROZENTAL, L.; ZAKRZEWSKA, K.

Darkening of peeled potatoes; studies on the tryosinase of potatoes, p. 395.
(ROCZNIKI, Warsaw, Vol. 5, no. 4, 1954.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 4. Jan. 1955,
Uncl.

KUZENIAT, W.

P O L .

✓ Essential oils in pharmaceutical plants. Stanisław
Krauze and Ludwik Rozental (Zakład Badania Środków
Spożywczych, Akad. Med. Warsaw). Roczniki Państwo-
wego Zakładu Hig. 3, 331-80 (1952). A comparison was
made of the methods of Grilebel, Zach (C.A. 26, 4411),
Deryng, and a modification of Moritz (C.A. 35, 1931*) for
the detn. of essential oils in pharmaceutical plants. The
highest results were obtained with the Deryng and Moritz
methods and the lowest with the method of Zach. 94 refer-
ences.
L. J. Piotrowski

Rozental, L.

POL.

✓ Observations on browning of pre-peeled potatoes. Luni-wik Rozental and Krystyna Zakrzewska (Inst. Commerce-Nutrition, Warsaw). Roczniki Państwowego Zakładu Hig. 5, 395-420 (1954) (English summary).—A method was developed for the detn. of tyrosinase activity based on the photometric measurement of the dark oxidation product of tyrosine. The optimum pH for tyrosinase activity is about 8 (phosphate buffer) and the optimum temp. is about 40°. Fe, Cu, and Co act as activators and should not be used in the production of a machine which may come in direct contact with potatoes. Cr is an inhibitor of the reaction while Zn, Al, Pb, Ni, Mn, Sn and Mg do not appear to have any appreciable influence. Tyrosinase inhibitors *in vitro* are: SO₂ and compds. contg. this group; HCl, HNO₃, H₂SO₄, tartaric, citric, lactic, ascorbic, formic and β -hydroxybenzoic acids as well as Na benzoate, Na salicylate, chloramine, and thionex. The following substances have no appreciable effect: H₂O₂, NaNO₃, NaF, NaCl, NH₄CNS, Nipagine M, acetic and boric acids. Tyrosinase activity is increased by ultraviolet light. Dipping of potatoes for 10-15 min. in a 0.09% soln. of H₂SO₄ or a 0.4% soln. of HCl is considered to be the most practical procedure for the prevention of browning in pre-peeled potatoes. Alina S. Szczesniak

RÓZENTAL, L.

KRAUZE, S.; ROZENTAL, L.

"Attempts to crystallize mushroom catalase" p. 227 (roczniki, No. 3, 1953, Warszawa)

East European Vol. 3, No. 3 4
SO: Monthly List of Russian Accessions / Library of Congress, March 1953, Uncl.

ROZENTAL, L.

"Mushroom catalase" p. 291 (roczniki, No. 3, 1953, Warszawa)

East European Vol. 3, No. 3
SO: Monthly List of ~~Russian~~ Accessions / Library of Congress, March 1953, Uncl.
⁴

ROZENTAL, LUDWIK

5

The comparison of some method of estimation of inverted sugar in the presence of sucrose.⁷ Ludwik Rozental (Research Inst., Warsaw). Rocznik Polon. Nauk. Zasada, Hrg. 7, 521-300(1956)(English summary). The Lane-Bynon method (C.A. 17, 1400) was well suited for estg. inverted sugar in the presence of sucrose. With sufficiently low concns. of sucrose, Schoorl's method with Luff's liquid (C.A. 44, 803) was adequate, but with 99% sucrose the estn. was about 3% high. Brüha's method (C.A. 24, 5534) was quick and approx. Bertrand's method (Bull. soc. chim. Paris 35, 1286(1906)) and the "Iodometric" method according to Pellenberg and Demant (C.A. 30, 654) were unsatisfactory. — P. Dreyfuss

RM

M

(2)

Mushroom catalase. Ludwik Rozenblat (Med. Acad. Wurz, Poland). Roczniki Państwowego Zakładu Hig. 1953, 29: 301-306 (English summary).—The presence of very high catalase activity was demonstrated in all of the species of edible and poisonous mushrooms examined. The catalase activity of mushrooms was higher than that of pumpkin cotyledons (2-5 days after incubation) and in some cases almost 1/4 that of horse liver. The catalase activity of young mushrooms was several times higher than that of old mushrooms of the same species. There was a definite proportionality between the size attained by a given species of mushroom and its catalase activity. The catalase activity was always higher in the cap than in the stem of the same mushroom.

Alina S. Sz

CA

IIA

Peroxidase. Ludwik Rosental (Akad. Medyczna, Warsaw, Poland). *Roczniki Państwowego Zakładu Hig.* 2, 319-64 (1951).—Peroxidase (I) from horseradish (Ib) and animal I from milk (Im) is detd. using guaiacol (III) as the substrate and measuring colorimetrically the formation in presence of H_2O_2 of tetraguaiacoulinone (III) (cf. Zelle in Bauman and Myrbäck, *Die Methoden der Fermentforschung*, 1940, p. 2508 (C.A. 35, 6017')). Daylight and elec. light do not affect the reaction, the optimum temp. is 35-40° for Ib and not less than 25° for Im. The optimum pH is 4.8 for Ib and 8.3 for Im. At low concn. of II the concn. of III is proportional to the concn. of II in soln. There is an optimum concn. of H_2O_2 , which depends mainly on the concn. of II, and also on the concn. of I. Catalase, depending on its concn. and on the H_2O_2 concn., can either increase or decrease the activity values for I. Ascorbic acid (IV) inhibits the color reaction in proportion to its concn., 1 mg. IV decreases absorption approx. 3.6% irrespectively of the concn. of I. By using this value the concn. of I in the presence of a known amt. of IV can be detd. The IV inhibition explains the neg. I values obtained by other workers on high IV milk samples from nursing mothers, mares, and elephants.

I. Z. Roberts

S/064/60/000/005/010/021/XX
E024/B070

AUTHORS: Rozental', L. V., Burdygina, G. I., Korneva, E. D.,
Zhurina, F. G.

TITLE: Plasticization of Triacetate Cellulose Films by Means of
Ester Mixtures of Higher Synthetic Fatty Acids ✓

PERIODICAL: Khimicheskaya promyshlennost', 1960, No. 5, pp. 15 - 18

TEXT: This paper deals with a study of the plasticizing effect of esters of higher synthetic fatty acids ($C_6 - C_{16}$). It follows from the experiments that low temperatures favor the combination of the plasticizer with triacetate cellulose even when all traces of diluents and solvents are removed from the film. At higher temperatures and higher relative atmospheric humidity, this combination is checked. The number of double bendings endured by the film increases with the increase in the number of carbon atoms in the alcohol radical of fatty acid ester; under the same conditions the plasticizing effect also increases at lower temperatures. For the same number of carbon atoms in the acid

Card 1/2

Plasticization of Triacetate Cellulose
Films by Means of Ester Mixtures of
Higher Synthetic Fatty Acids

S/064/60/000/005/010/021/XX
B024/B070

radical of the esters of higher synthetic fatty acids, their plasticizing effect increases with the increase in the molecular weight of the alcohol radical. There are 5 tables and 4 references: 3 Soviet and 1 German.

ASSOCIATION: NIKFI (Motion Picture and Photography Scientific Research Institute). NIOPiK im. K. Ye. Voroshilova (Scientific Research Institute of Organic Semifinished Materials and Dyes imeni K. Ye. Voroshilov)

Card 2/2

ROZENTAL', L. V.; BURDYGINA, G. I.; KORNEVA, E.D.; ZHURINA, F.G.

Plasticization of cellulose triacetate films by mixtures of
esters of higher synthetic fatty acids. Khim.prom. no.5:367-370
Jl-Ag '60. (MIRA 13:9)

1. Nauchno-issledovatel'skiy kinofotoinstitut i Nauchno-issledo-
vatel'skiy institut organicheskikh poluprovodnikov i krasiteley.
im. K.Ye.Voroshilova.

(Cellulose acetate) (Plasticizers) (Acids, Fatty)

USSR/Chemistry - Nitrocellulose

Rozental', L.V.

Card 1/1 Pub 50-15/19

FD-1811

Author : Rozental', L. V., Cand Tech Sci; Podgorodetskiy, Ye. K., Cand Tech Sci

Title : The effect of surface-active agents on the dehydration of nitrocellulose

Periodical : Khim. prom., No 2, 112 (48), Mar 1955

Abstract : Found that when the surface-active agent OP-10 (a mixture of alkylated phenol derivatives of polyethyleneoxide) has been added, the moisture content of nitrocellulose is reduced much more effectively by centrifuging. Four references, 2 USSR, both since 1940. Three graphs, one table.

Institution: All-Union Scientific Research Ciné-Photo Institute

ROZENTAL, L.V.

Distr: 4E2c(j)/4E2d

✓ Protective coatings on movie films. L. V. Rozental,
O. K. Smirnov, G. I. Burdygina, and T. K. Averbukh.
U.S.S.R. 108,132, Oct. 25, 1957. Protective coatings are
made of cellulose acetylphthalate solns. in org. solvents,
with or without a pigmenting substance, e.g., C black. To
the above soln. or dispersion is added an aq. soln. of a weak
base, e.g., NH₂OH, to neutralize partly the acid groups in
the cellulose acetylphthalate, and then the requisite amt. of
water is added. M. Hoseh.

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2

15 20
11
JF G

POPOVA, V.M.; ROZENTAL', M.D.; SADYRIN, M.M.; TROP, I.Ye.; CHULOVSKIY, I.K.

Group poisoning with spring honey and a method for determining
toxicity by the biological testing and pollen analysis. Gig.
i san. 25 no. 6:92-94 Je '60. (MIRA 14:2)

1. Iz Omskogo nauchno-issledovatel'skogo instituta epidemiologii,
mikrobiologii i gigiyeny, Omskogo-veterinarnogo instituta i
Omskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.
(HONEY--TOXICOLOGY)

BERRI, R.Ya., dotsent; KOZLYAYEV, P.A., dotsent; LUNTS, G.L., dotsent;
LIBIN, M.L., starshiy prepodavatel'; ROZENTAL', M.I., assistent.
Prinimali uchastiye: FUKS, B.A., prof.; VOYEYKOVA, S.V., dotsent;
KOZITSIN, V.I., dotsent; TEUSH, V.L., dotsent. ANOSHINA, K.I.,
red.; KUZ'MINA, N.S., tekhn.red.

[Higher mathematics; instructions and control problems for students
specializing in agriculture, fish culture, and forestry in upper-
level correspondence schools (departments)] Vysshiaia matematika;
metodicheskie ukazaniia i kontrol'nye zadaniia dlia studentov sel'-
skokhoziaistvennykh, rybokhoziaistvennykh i lesokhoziaistvennykh
spetsial'nostei zaочnykh vysshikh uchebnykh zavedenii (fakul'tetov).
Pod red. G.L.Luntsa. Moskva, Gos.izd-vo "Sovetskaia nauka," 1958.
90 p. (MIRA 12:4)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego obrazovaniya.
Metodicheskoye upravleniye.

(Mathematics)

ROZENTUL, M.A.; VASIL'YEV, T.V.; YEGOROV, G.I.; MASLOV, P.Ye.; KHANAGANOVA,
A.V.; RAKHMANOVA, N.V.

Treatment of syphilis with bicillin-3. Antibiotiki 6 no.9:36-41
S '61. (MIRA 15:2)

1. Otdel sifilidologii TSentral'nogo kozhno-venerologicheskogo instituta
Ministerstva zdravookhraneniya RSFSR.
(SYPHILIS) (BICILLIN)

MORKIN, Sim Borisovich; BERRI, Roza Yakovlevna; ZHABIN, Ivan
Andreyevich; POLOZKOV, Dmitriy Petrovich; ROZENTAL',
Mariya Iosifovna; SULEYMANOVA, Khafaza Raziyevna;
TAL'SKIY, D.A., red.; YEZHOOVA, L.L., tekhn. red.

[Elements of computer mathematics] Elementy vychisli-
tel'noi matematiki. Izd.2., perer. i dop. [By] S.B.
Norkin i dr. Moskva, Gos.izd-vo "Vysshiaia shkola," 1963.
209 p. (MIRA 16:12)

(Approximate computation)

"APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001445620020-7

ROZENTAL, M.I.,
S.A. AZIMOV, DAN, Vol. 21, No. 5,

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001445620020-7"

ROZENTAL' M M

I..
I01.II
.R8

DIE MARXISTISHCHE DIALEKTISCHÉ METHODE. BERLIN, DIETZ VERLAG,
1955.

352 P.

TRANSLATED FROM THE RUSSIAN: MARKSISTSKIY DIALEKTICHESKIY METOD, 1952.

BIBLIOGRAPHICAL FOOTNOES.

"THE MARXIST DIALECTIC METHOD."

ROZENT'L', R. M.

b.2
101.11
.R86

Der dialektische materialismus. Berlin, Dietz, 1953.

94 p. (Grosse Sowjet Enzyklopädie, Reihe Marxismus-Leninismus, v. 2)

Translation from the Russian: Bolshaya Sovetskaya Entsiklopediya, 2. Ed.,
Moscow, 1952, v. 14, p. 277-296.

Bibliographical footnotes.

ROZENTAL', M. M.

USSR (600)

Social Sciences

Marxist dialectical method. Moskva, Gospolitizdat, 1951.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED

ROZENTAL', Mark Moiseevich, ed.

Concise philosophical dictionary Izd. 4., dop. i.ispr. Moskva, Gos. izd-vo
polit. lit-ry, 1954. 703 p.

1. Philosophy - Dictionaries.

VIKHTER, Yakov Isaakovich. Prinimali uchastiye: LUTSIN, A.V.;
RASOVSKIY, V.E.; ROZENTAL', N.K.; RATINOV, V.V., nauchnyy
red.; STRATILATOVA, K.I., red.; TOKER, A.M., tekhn. red.

[Manufacture of gypsum] Proizvodstvo gipsa. Moskva, Proftekhn-
izdat, 1962. 245 p. (MIRA 16:1)
(Gypsum)

L 5283-66 EWT(m)/EWP(t)/EWP(k)/EWP(b)/EWA(h)/EWA(c) JD/HW
ACC NR: AP5022040 SOURCE CODE: UR/0286/65/000/014/0110/0110

AUTHORS: Mozheyko, Yu. P.; Rozental', N. K.

ORG: none

TITLE: A method for extruding metallic details. Class 49, No. 173107 [announced by the Leningrad Order of Lenin Factory "Krasnaya Zarya" (Leningradskiy ordena Lenina zavod "Krasnaya Zarya")]

SOURCE: Byulleten' izobreteniy i tovarknykh znakov, no. 14, 1965, 110

TOPIC TAGS: metal extrusion, metal pressing, metal forming

ABSTRACT: This Author Certificate presents a method for extruding metallic details with a die and a plunger. To lower the necessary specific pressure and to increase the efficiency of the process, the die is forced to move in the direction toward the metal flow with a velocity exceeding that of the metal flow.

SUB CODE: IE, MM/ SUBM DATE: 07Dec62/ ORIG REF: 000/ OTH REF: 000

PC
Card 1/1

09010491

SHABANOV, F.I.; ROZENTAL', N.K.

Instrument for electric seam welding of membranes. Priborostroenie
no.8:27-28 Ag '56. (MLRA 9:10)

(Electric welding)

10416-67 EWT(d)/EWT(m)/EWP(y)/EWP(k)/EWP(h)/EWP(l) DJ
ACC NR: AP6029956 SOURCE CODE: UR/0413/66/000/015/0135/0136

25

AUTHORS: Mozheyko, Yu. P.; Rozental', N. K.

ORG: none

TITLE: A hydraulic device for extruding metallic details. Class 49, No. 184595
(announced by Leningrad Order of Lenin Factory "Krasnaya zarya" (Leningradskiy ordena
Lenina zavod "Krasnaya zarya"))

SOURCE: Izobrot prom obraz tov zn, no. 15, 1966, 135-136

TOPIC TAGS: metal extrusion, hydraulic equipment, hydraulic device

ABSTRACT: This Author Certificate presents a hydraulic device for extruding metallic details. The device contains a hydraulic cylinder supporting a plunger, and a die-holder with a die. To produce a die displacement velocity greater than the velocity of metal feed and to lower the necessary power of the device, the latter is provided with piston-carrying rods. The pistons are mounted in the through openings in the plungers and are rigidly fixed with the dieholder.

SUB CODE: 13/ SUBM DATE: 07Dec62

UDC: 621.226:621.777

Card 1/1^{b7c}

Rozental', N.N.

25-7-27/51

AUTHOR: Rozental', N.N., Doctor of Historical Sciences, Professor

TITLE: Incorrect Interpretation of Solved Problems (Nepravil'noye osveshcheniye reshennykh voprosov)

PERIODICAL: Nauka i Zhizn', 1957, # 7, p 39-41 (USSR)

ABSTRACT: The author reviews a number of books on the history of Christianity and ancient Rome. He points out that the Gospel and ancient Roman writers are no reliable sources, being influenced by myths and legends. He comes to the conclusion that religion is the ideological means of slave-owners to make the working class obey and love their masters.

AVAILABLE: Library of Congress

Card 1/1

L 39485-65 EWT(1)/EWA(h) Feb GG
ACCESSION NR: AP5004937

S/0286/65/000/002/0035/0035

9
B

AUTHORS: Royzen, V. Z.; Kleyn, E. A.; Rozental', N. K.

TITLE: Polarized relay. Class 21, No. 167577

SOURCE: Byulleten' izobrreteniy i tovarnykh znakov, no. 2, 1965, 35

TOPIC TAGS: relay

ABSTRACT: This Author Certificate presents a polarized relay. To increase the temperature stability and vibration resistance of its parameters, the polarizing and exciting magnetic fluxes are separated. Permanent magnets are used as supporting parts of the structure for supporting the armature and operating poles. To decrease the response time, the structure subassemblies are insulated electrically from each other, e.g., by phosphating. To better utilize the exciting magnetic flux, its magnetic circuit is separated from the supporting structure of the relay by nonmagnetic split collars which are also used for fastening the controlled poles.

ASSOCIATION: none

SUBMITTED: 300ct54

NO REF SOV: 000

ENCL: 00

OTHER: 000

SUB CODE: EC

Card 1/1 ps

GAABE, Yu.E.; KAZARINA, A.K.; KIPERMAN, G.Ya.; MALYI, I.G.;
ROZENTAL', O.E.; KOROTKOV, A.F., retsenzent;
TITEL'BAUM, N.P., retsenzent; TRUKHANOVA, A.N., red.;
IL'YUSHENKOVA, T.P., tekhn. red.

[The theory of statistics] Teoriia statistiki. [By] IU.E.
Gaabe i dr. Pod red. I.G.Malogo. Moskva, Iskusstvo, 1963.
(MIRA 16:5)
398 p.

(Statistics)

POROYKOVA, V. S.; ROZENTAL¹, O. L.

Relation between hydrogen overvoltage and the ampere-hour capacity of porous iron electrodes. Izv. vys. ucheb. zav., khim. i khim. tekhn. 5 no.5:788-792 '62.

(MIRA 16:1)

1. Ivanovskiy khimiko-tehnologicheskiy institut, kafedra tekhnologii elektrokhimicheskikh proizvodstv.

(Overvoltage) (Electrodes, Iron)
(Hydrogen)

ROZENTAL', O.M.

Work function of ice formation in water. Zhur. strukt. khim.
6 no. 4:635-636 Jl-Ag '65 (MIRA 19:1)

1. Tul'skiy gosudarstvennyy pedagogicheskiy institut. Submitted
March 5, 1965.

9.7800

44093
S/185/62/007/011/005/019
D234/D308

AUTHORS: Berczin, F.N., Ofenhenden, R.H., Rozental', O.M.
and Shaleyko, M.A.

TITLE: The small amplitude analyzer AIMA-3 (AIMA-3)

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 11, 1962,
1180-1190

TEXT: This analyzer was designed in order to improve the reliability and some characteristics of AIMA-2. The channel generator circuit is completely changed. Instead of frequency dividers an artificial delay line is used, the delay being 30 or 48 μ sec. In the memory unit, two recording heads are used, the distance of one from the playback head being 1.5 times greater than that of the other. This increases the number of channels to 120. In the supply unit, kenotrons are replaced by silicone diodes, which decreases the number of transformers and choke coils. The number of vacuum tubes has been reduced from 128 to 84. The number of channels is 50 (with channel capacity of 65535 pulses), 80 or 120 (1023 pulses). *X*

Card 1/2

The small amplitude ...

S/185/62/007/011/005/019
D234/D308

Background subtraction is possible with a factor 1, 2 and 4. The analyzer consists of a measuring unit and a supply unit, each 500 x 450 x 500 mm. There are 13 figures. X

ASSOCIATION: Instytut fizyky AN URSR, Kyyiv (Institute of Physics of the AS UkrSSR, Kiev)

SUBMITTED: June 8, 1962

Card 2/2

ACCESSION NR: AR4014947

S/0271/63/000/012/B056/B056

SOURCE: RZh. Avt., tel. i vy*chisl. tekhnika, Abs. 12B325

AUTHOR: Ofengenden, R. G.; Savchenko, I. M.; Rozental', O. M.; Shaleyko, M. A.

TITLE: Devices and elements of two-dimensional pulse analyzers

CITED SOURCE: Tr. 5-y Nauchno-tekhn. konferentsii po yadern. radioelektronike. T. 2. Ch. 2. M., Gosatomizdat, 1963, 108-114

TOPIC TAGS: pulse analyzer, two-dimensional pulse analyzer, computer circuit

TRANSLATION: The authors describe individual standard circuits with semiconductor triodes and memory units with magnetic drums which are employed in 2-dimensional pulse analyzers. The standard circuits, which include two types of saturated triggers with actuation frequencies of 250 kc and 2 mc, and pulse amplifiers using standard cells with a 46 x 91 mm printed circuit chassis are used in constructing the conversion circuits of trigger registers. The described magnetic drums contain 4, 12, or 70 recording tracks, employ ferrite magnetic heads, and rotate at the rate of 12,000 rpm. Six illustrations. Bibliography with one title. I.V.

Card 1/2

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ACCESSION NR: AR4014947

DATE ACQ: 09Jan64

SUB CODE: CP, GE

ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 07/13/2001

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41438

S/120/62/000/005/018/036
E192/E382

7/140

AUTHORS: Ofengenden, R.G. and Rozental', O.M.

TITLE: Amplitude-pulse analyzer with a static periodic
memory device

PERIODICAL: Pribory i tekhnika eksperimenta, no. 5, 1962,
113 - 117

TEXT: The information introduced into the analyser is preserved when its supply sources are switched off. This characteristic is principally due to using a magnetic drum as the memory device, in which the information is continuously circulated and is not erased during the switching-off of the supply. The principle of operation of the analyzer is as follows. Two tracks of the magnetic drum are used for recording synchronizing pulses. Track I carries pulses for marking the start of a cycle while track II contains high-frequency pulses. The latter are divided by 16 and form pulses for individual channels. The pulses taken from track I, the high-frequency pulses and the channel pulses control the operation of the analyzer. The pulses to be analyzed are shaped and lengthened

Card 1/43

S/120/62/000/005/018/036
E192/E382

Amplitude-pulse analyzer

and then a potential wave-form is produced whose amplitude is proportional to the amplitude of the measured pulse. This wave-form is applied to an input of a comparison circuit. The second input of the comparison circuit receives a linearly-rising staircase waveform (see Fig. 1), which is produced by the channel pulses. By using the staircase waveform instead of a sawtooth voltage the tolerance on the stability of the angular velocity of the magnetic drum can be relaxed. After carrying out the comparison a signal is produced at the output of the comparison circuit. This is in the form of a pulse which is in-phase with one of the channel pulses. The information in this channel should be increased by a unit. This is achieved by providing track III of the drum with two heads, such that the distance between their front gaps is exactly equal to that between the neighbouring pulses of the channels. Constructionally, the two heads form a single double-head. The staircase waveform generator is based on a phantastron with storage capacitances, the amplitude of a step being determined by the amplitude of each pulse and the ratio of the capacitances. The analyzer can be used for the simultaneous measurement of n-spectra by providing some additional

Card 2/A3

Amplitude-pulse analyzer

S/120/62/000/005/018/036
E192/E582

equipment; however, the quantity of this equipment is negligible in comparison with that initially required for measuring a single spectrum. There are 4 figures.

ASSOCIATION: Institut fiziki AN UkrSSR
(Institute of Physics of the AS UkrSSR)

SUBMITTED: September 25, 1961

4

Card 3/A3

ROZENTAL', R.E.; DOBRONRAVOVA, K.O., red.; KONOVALYUK, I.K., mladshiy
red.; GLEYKH, D.A., tekhn.red.

[Latvian S.S.R.] Latviiskaia SSR. Moskva, Gos.izd-vo geogr.lit-ry,
1959. 71 p. (MIRA 12:6)

(Latvia)

ROZENTAL', Rassa Eduardovna; DOBRONRAVOVA, K.O., red.; KONOVALYUK, I.K.,
mladshiy red.; GLEYKH, D.A., tekhn.red.

[Lithuanian S.S.R.] Litovskia SSR. Moskva, Gos.izd-vo geogr.
lit-ry, 1959. 79 p. (MIRA 12:6)
(Lithuania)

ROZENTAL', Ranna Eduardovna; TUGARINOV, Dmitriy Nikolayevich; KUZ'MINA,
N.Ye., red.; BELICHENKO, R.K., mладший red.; NOGINA, N.I.,
tekhn.red.

[The Estonian S.S.R.] Estonskaya SSR. Moskva, Gos.izd-vo geogr.
lit-ry, 1959. 71 p. (MIRA 12:12)
(Estonia--Economic conditions)

ROZENTAL, R.E.

ZABELIN, Igor' Mikhailovich; ROZENTAL', R.E., red.; TARASOVA, V.V., tekhn.red.

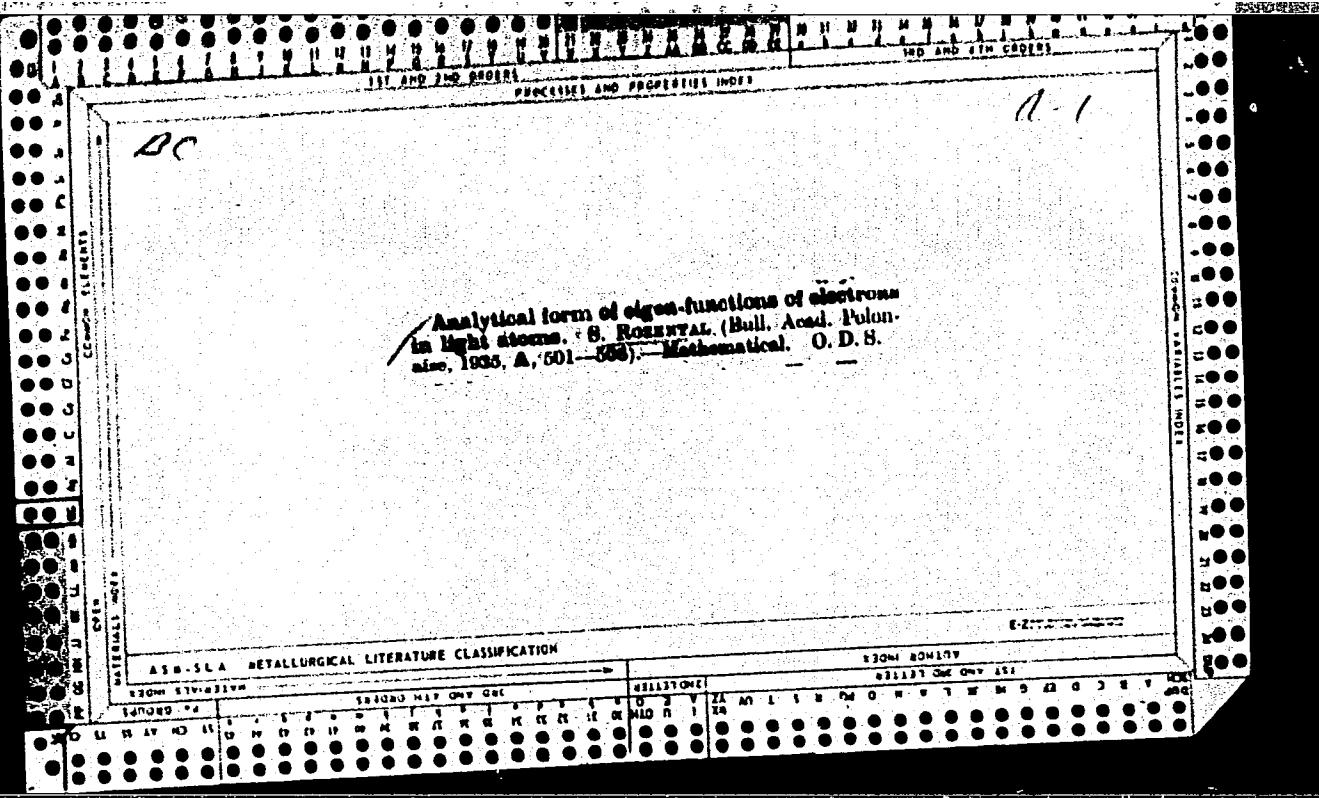
[Basic problems in the theory of physical geography] Osnovnye
problemy teorii fizicheskoi geografii. Moskva, Izd-vo Akad.pedagog
nauk RSFSR, 1957. 99 p.. (MIRA 10:12)

(Physical geography)

ROZENTAL', R.E.; TUGARINOV, D.N.; KONOVALYUK, G.A., redaktor; KOSHELEVA,
S.M., tekhnicheskiy redaktor

[Lithuania, Latvia, Estonia] Litovskaya SSR, Latvianskaya SSR,
Estonianskaya SSR. Moskva, Gos. izd-vo geogr. lit-ry, 1956. 53 p.
(MLRA 10:1)

(Baltic States—Economic conditions)



ROZENTAL, Stefan, prof. dr; HELDEBERG, Romana [translator]

Niels Bohr and his working methods. Problemy 19 no.2:66-70
'63.

1. Uniwersytet w Kopenhadze i NORDITA (Nordisk Institut for
Teoretisk Atomfysik) (for Rozental).

Poland /Chemical Technology. Chemical Products I-19
and Their Application

Dyeing and chemical treatment of textiles

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32221

Author : Rozental Szymon

Title : Anti-Rotting Impregnation of Articles Made of
Cellulose Fibers

Orig Pub: Przem. wlokienn., 1955, 9, No 5, 193-194

Abstract: Means of safeguarding cellulose fibers against
rotting are considered. Requirements that must
be met by substances used to impregnate cellulose
fibers in order to prevent their rotting, are
discussed. The technological process of impreg-
nation of articles with chemical rot inhibiting

Card 1/2

Poland, S.

Prospects in the development of financing in People's Poland. p. 114

INTERNATIONAL LIBRARY vol. 8, no. 4, July/Aug. 1954

Poland

sc. EAST GERMAN ACCESSIONS LIST vol. 5, no. 10 Oct. 1956

Rozenthal, S.

3

Water-proofing impregnation of the Velan type. S. Rozenthal
(Transl. Inst. Wlon., 1933, No. 1, 12-25). A laboratory method for the prep. of water-proofing impregnations, based on the use of an eq. emulsion of pyridine stearate is described. The method is simple and does not require the use of solvents, and the stable product obtained after pulverisation can be used immediately. Optimum concn. of the impregnating emulsion, addition of Na acetate to protect the fibres against loss of strength, drying temp., and temp. and time of heating the fabric in the solution to effect a chemical bond between impregnating agent and fabric, are discussed. Comparison of the preparation (IW) with other products, Cerol WP and Prinsol WP, showed that it is at least equal in quality. A simple and inexpensive method of improving the light fastness of "Velanised" fabrics by using Cu salts ($CuSO_4$) is described. The role of Cu salts in the process is not yet understood.

J. Text. Inst. (R.H.C.)

RE

ROZENTAL, S

Crzel, M.; Rozental, S

"a poor edition of a good book." p. 272
From life of the Association of Engineers and Technicians of the Textile Industry in
Lodz. p. 275 (Przemysl Klockienniczy, Vol. 7, No. 11/12, Nov./Dec.; 1953, Lodz)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June.
1954, Uncl.

RCZENTAL, S.

"Photomechanical method of engraving printing rollers." p. 55 (Przemysl Wlokienniczy, Vol. 7, No. 2, Feb. 1953, Lodz)

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 6, June 1954, Uncl.

ROZENTAL, S.

"Printing Fabrics Without a Lining." p. 16, Vol. 7, no. 1, Jan. 1953, Lodz.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

1. ROZENTAL, S.
2. USSR (600)
4. Nets - Pechora River
7. Caprone nets on Pechora. Ryb. khoz. 28 no. 10, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

PTA

b

1182

681 : 677.04

Rozental S. Chemical Auxiliary Products and their Importance in the Textile Industry.

"Chemiczne środki pomocnicze i ich znaczenie we włókienictwie" Przemysł Włókenniczy, No. 4, 1951, pp. 155-157.

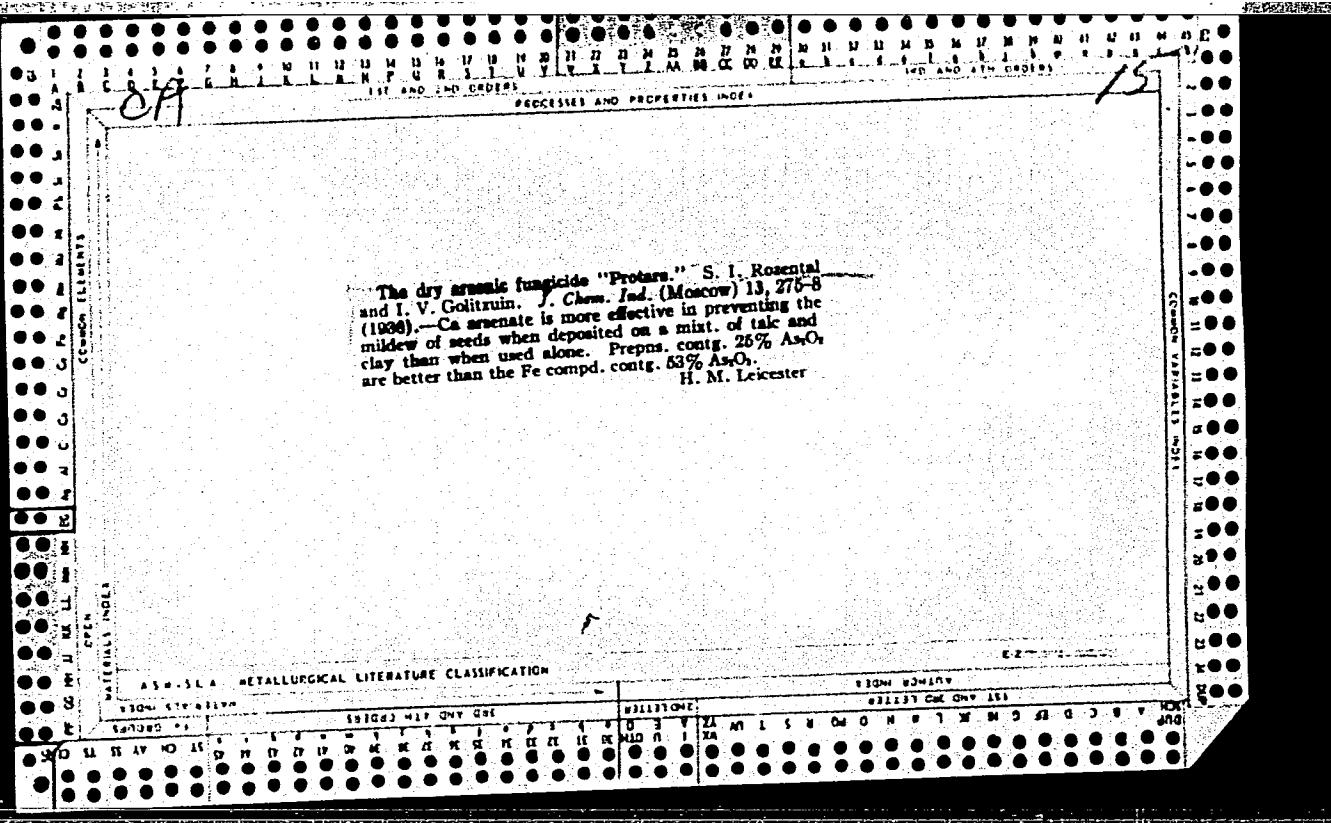
A survey of auxiliary products applied in finishing, together with the development and importance of such products for given services. Determination of three main groups of auxiliary products: surface-active products, synthetic resins and cellulose derivatives. Stress is laid on the necessity to increase the production of inland auxiliary products of all three groups.

R O Z E N T A L , D Y U M

✓ Fixing of starch finishes by means of synthetic resins. Szymon Rozental, *Prace Inst. Wloch.*, 1955, 4, No. 16, 8-13. A method was developed for fixing starch finishes on fabrics by means of urea- and melamine-formaldehyde resins in presence of acid catalysts. Even a small addition of the resins reduces the removability of the starch finish from fabrics by the first laundering (in a soap and soda solution at 60°, with rubbing) from 80 to 10-20%. The finish is suitable for fabrics from man-made fibres and cotton, provided they are not subjected to boiling in the course of washing. It is also possible to fix starch-containing printing pastes by means of the resins. The laboratory results were confirmed on an industrial scale. Application of the finish in the cotton industry effects considerable savings of starch!... J. Text. Inst. (R.B.C.)

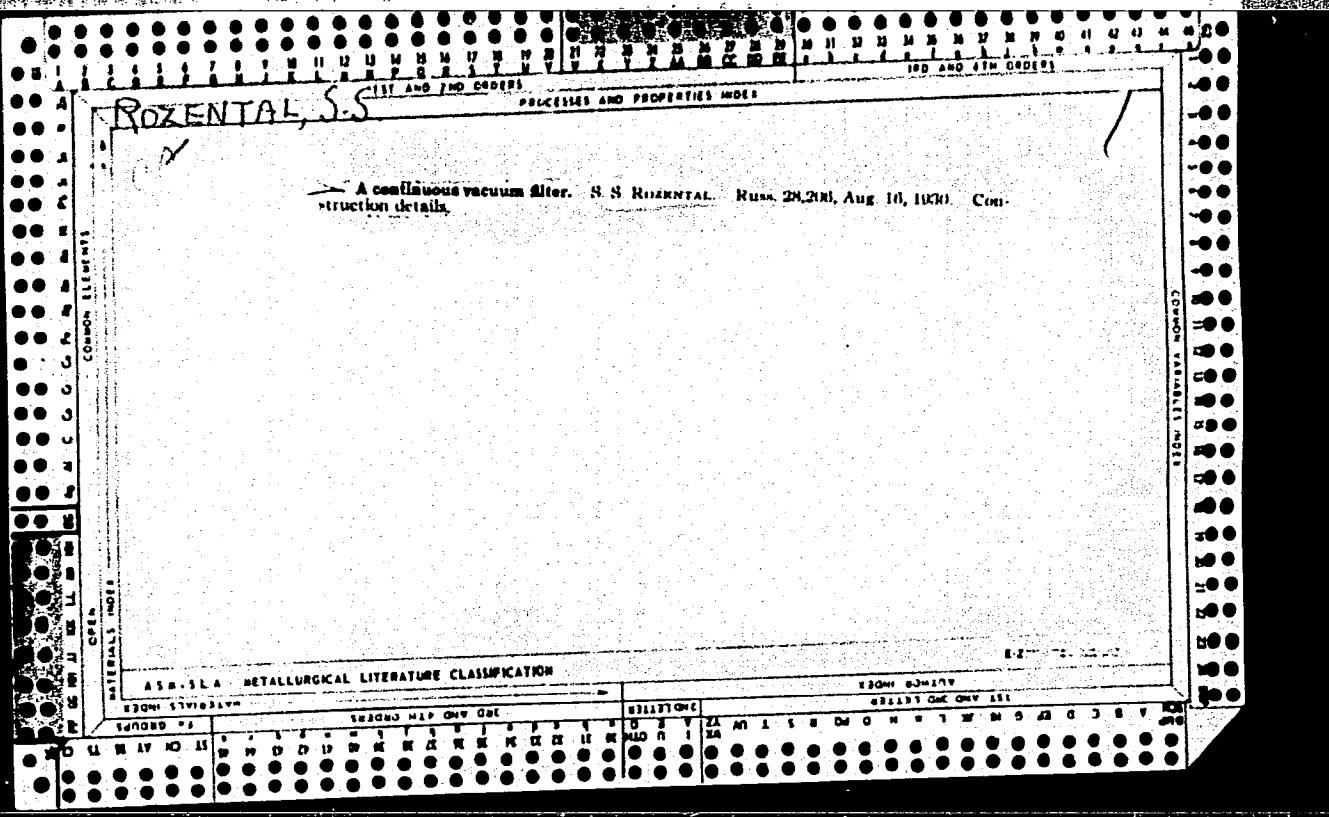
M. A. YOUTZ
2 copies

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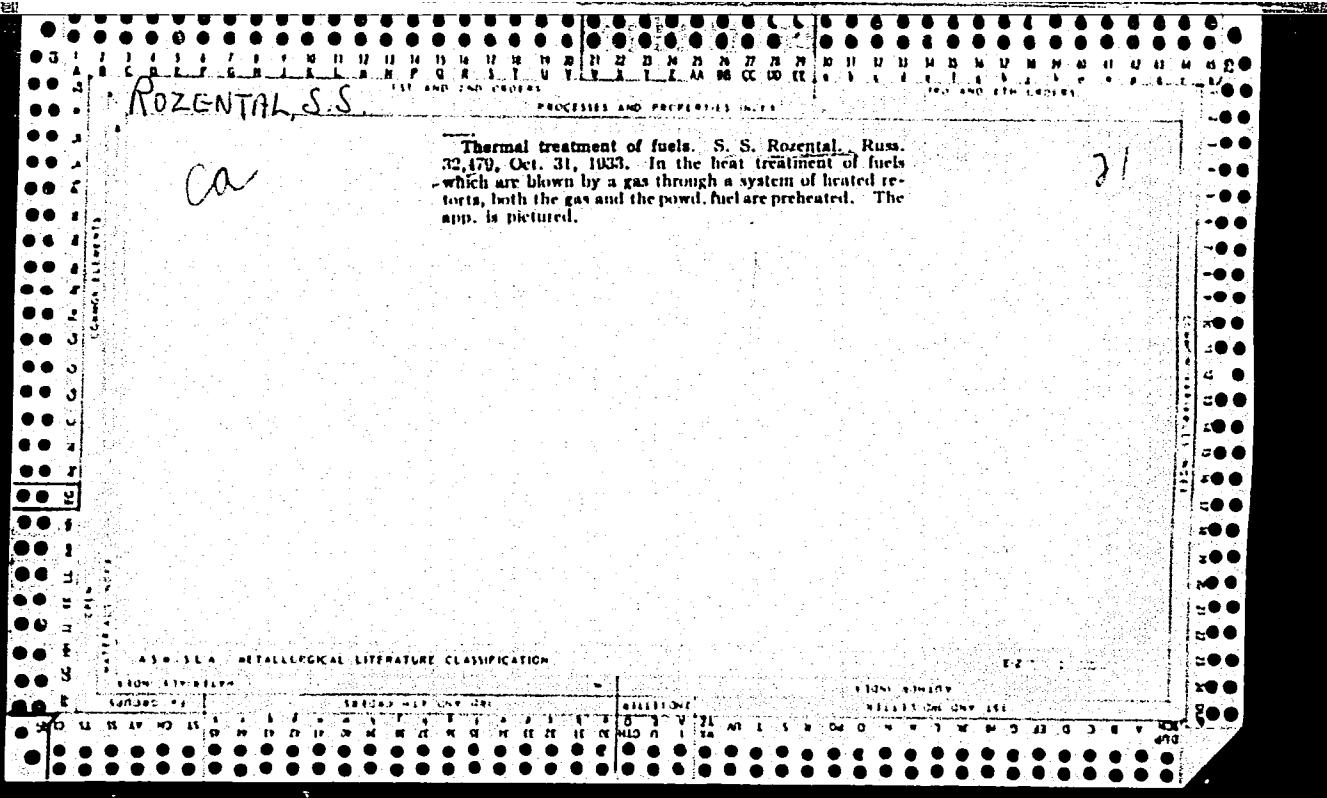
"APPROVED FOR RELEASE: 07/13/2001

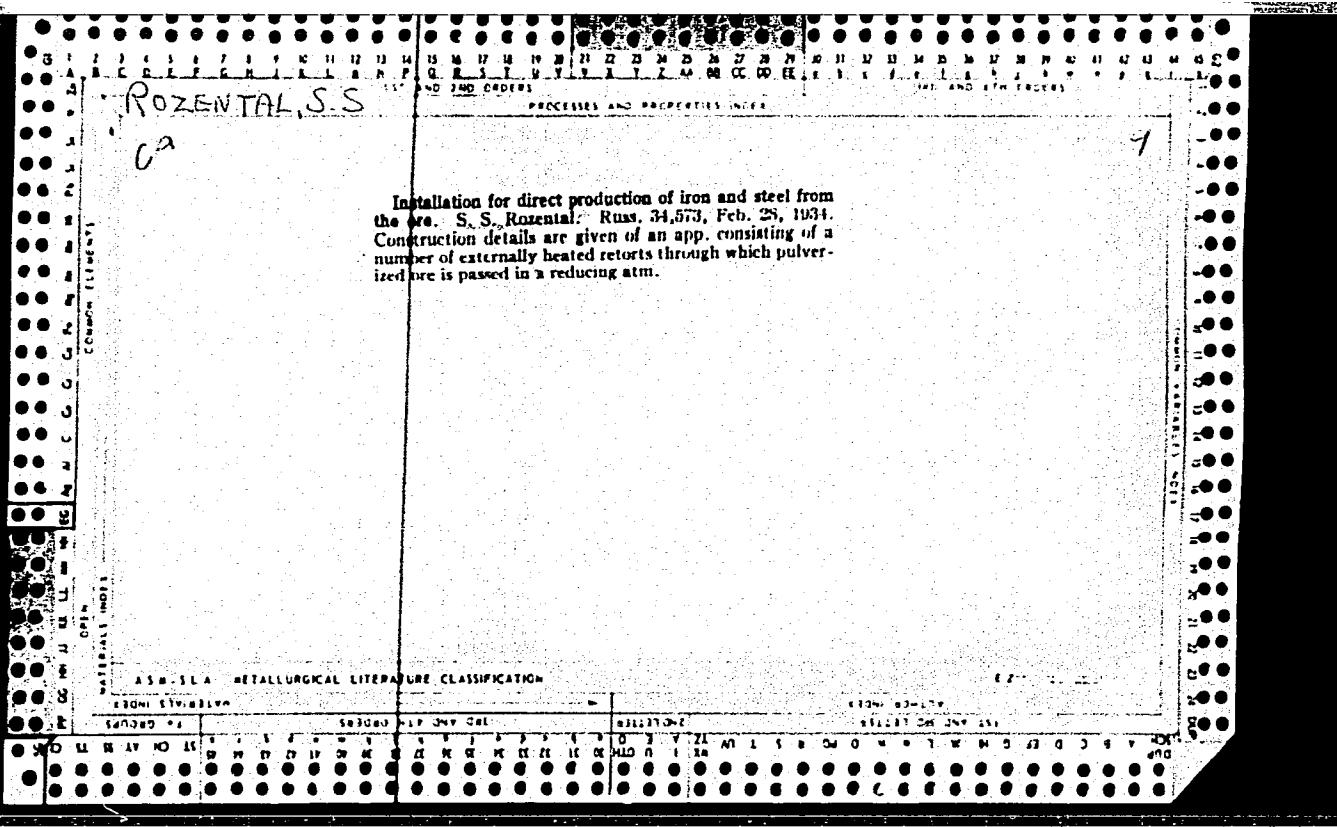
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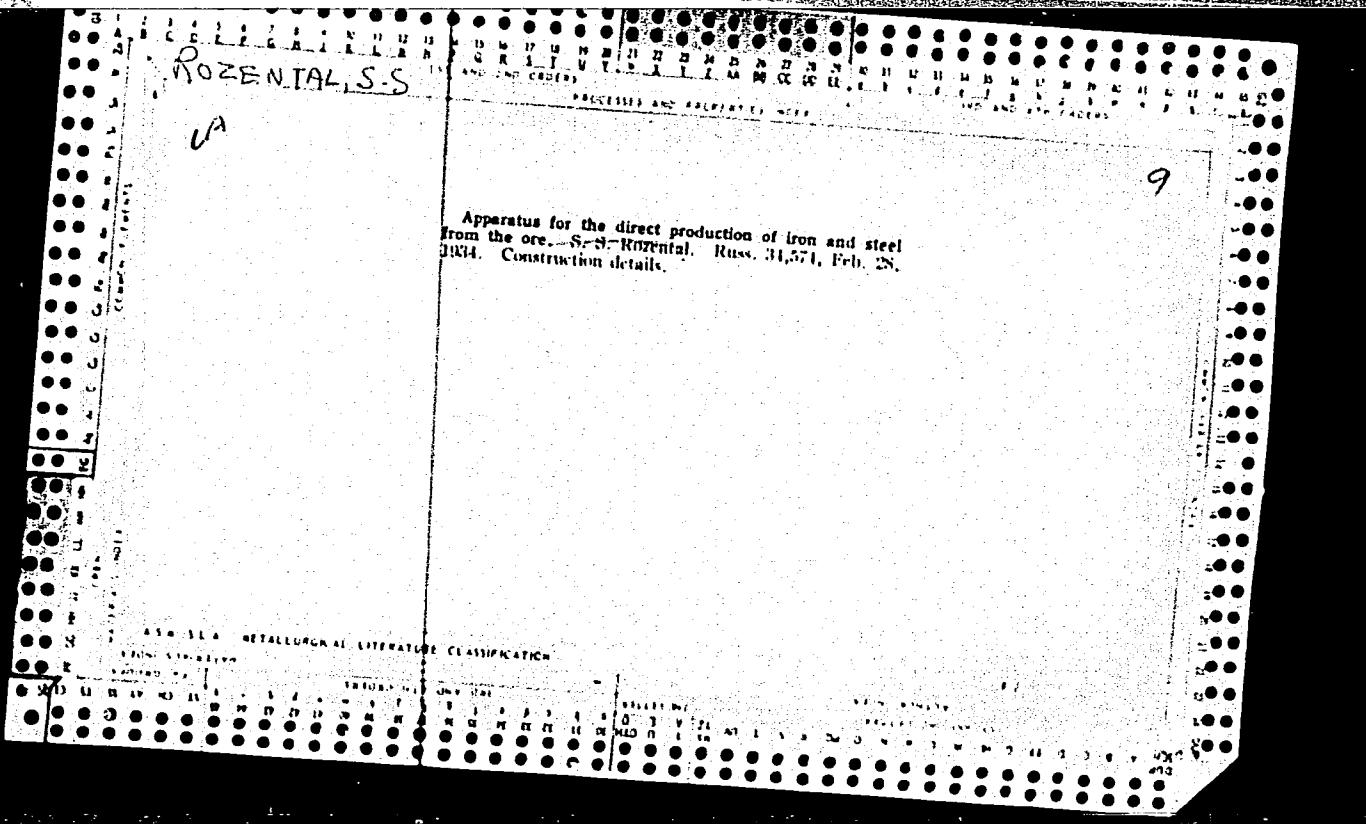
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USSR/Nuclear Physics - Elementary Particles.

C-3

Abs Jour : Ref Zhur - Fizika, No 4, 1957, 8642
Author : Rozental', T.L.
Inst : Physics Institute of the Academy of Sciences, USSR.
Title : Quasi-Unidimensional Interpretation of the Hydrodynamic Theory of Multiple Particle Production.
Orig Pub : Zh. eksperim. i teor. fiziki, 1956, 31, No 2, 278-287.
Abstract : An investigation is made of a variant of hydrodynamic theory of multiple particle production (Referat Zhur Fizika, 1954, 179), in which the hydrodynamic stage is limited to unidimensional motion. Using for an approximate solution of the fundamental system of relativistic hydrodynamic equations the method of successive approximations, it is possible to show that a one-dimensional approximation gives a good result all the way to not too low final temperatures $T_k \sim (1.5 - 2) \mu c^2/k$ (μ is the mass of the pion and k is the Boltzmann

Card 1/2

TSentral'noe

REYNBERG, S.A., zasluzhennyj deyatel' nauki professor; ROZENTAL', T.V.,
kandidat meditsinskikh nauk; KAPLUNOVA-SKROBEYVA, D.I. (Moskva)

Roentgenological changes in the lungs in pneumorickettsiosis
(Q fever). Klin.med. 34 no.12:44-54 D '56. (MLRA 10:2)

1. Iz pervoy kafedry rentgenologii i radiologii (zav. - prof. S.A.
Reynberg) TSentral'nogo instituta usovershenstvovaniya vrachey (na
base Moskovskoy gorodskoy ordena Lenina klinicheskoy bol'ницы
imeni S.P.Botkina)

(Q FEVER, case reports radiography
lungs)

(LUNGS, DISEASES, radiography
Q fever)

Standard types of defiberizers. A. A. Khlebnikov,
Yu. G. Rosenthal and F. E. Pimenov, Leningrad, Obلاсть
Sovet Nauch. Inzhenerno-Tekh. Obshchestva Tseluloz-
lobo-Bumashnogo Prom. (Problems of Paper-Pulp Industry)
No. 4, 42-53 (1935).—Screw defiberizer is considered
the most satisfactory of the continuous-action type of de-
fiberizers. A four-press hydraulic defiberizer is considered
more economical than a screw defiberizer. Chas, Blane

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AM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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ROZENTAL', Ya.Ya.

Improved design for the dust collector of a three-drum sander. Sbor. vnedr.rats.pred. v les. i meb.prom. no.2:74-76 '59. (MIRA 13:8)

1. Rizhskiy derevoobrabatyvayushchiy zavod "Assotsiatsiya."
(Dust collectors) (Sanding machines)

MANUKYAN, A.A.; RYDVANOV, N.F.; BELOUS, T.Ya.; SVIRIDOVA, Z.P.; CHEBOTAREVA, Ye.A.; SHUMILIN, V.I.; PUDINA, K.V.; LUTSKAYA, Ye.Ye.; BRAGINA, N.M.; SANDAKOV, V.A.; MUSSO, S.; ZABLOTSKAYA, A.I.; VDOVICHENKO, D.I.; MIRKINA, I.Z.; MORENO, I.; SIDOROV, V.F.; MOKLYARSKIY, B.I.; GRECHIKHIN, A.A.; KOSOVA, V.A.; KULIKOV, N.I.; ZHDANOVA, L.P.; ROZENTAL', Ye.I.; PETRANOVICH, I.M.

[Economic conditions of capitalist countries; survey of economic trends in 1961 and the beginning of 1962] Ekonomicheskoe polozhenie kapitalisticheskikh stran; kon'junktturnyi obzor za 1961 g. i nachalo 1962. g. Moskva, Izd-vo "Pravda," 1962. 157 p.

(MIRA 16:9)

1. Sotrudniki kon'yunkturnogo sektora Instituta mirovoy ekonomiki i mezhdunarodnykh otnosheniy AN SSSR.
(Economic history)

MANUKYAN, A.A.; GLUSHKOV, V.P.; SHVEDKOVA, V.M.; SVIRIDOVA, Z.P.; CHEBOTAREVA, Ye.A.; SHUMILIN, V.I.; PUDINA, K.V.; BRAGINA, N.M.; LUTSKAYA, Ye.Ye.; KODACHENKO, A.S.; KOSOVA, V.A.; MOKLYARSKIY, B.I.; GRECHIKHIN, A.A.; KULIKOV, N.I.; RYDVANOV, N.F.; BEL'CHUK, A.I.; VINTSER, Yu.I.; ROZENTAL', Ya.I.; BELOUS, T.Ya.; SIDOROV, V.F.; ZHDANOVA, L.P.; ALEKSANDROVSKAYA, L.I.; KOVAL', V.V.; KHAVINSON, Ya.S., glavnnyy red.; SOKOLOV, I.A., zam.glavnogo red.; ALEKSEYEV, A.M., red.; ARZUMANIAN, A.A., red.; BELYAKOV, A.S., red.; BECHIN, A.I., red.; VARGA, Ye.S., red.; LEMIN, I.M., red.; LYUBIMOVA, V.V., red.; SKOROV, G.Ye., red. V redaktirovani uchastvovali: SHAPIRO, A.I., red.; TATISHCHEV, S.I.. KOVRIGINA, Ye., tekhn.red.

[Economic conditions of capitalistic countries: review of business conditions for 1958 and the beginning of 1959] Ekonomicheskoe polozhenie kapitalisticheskikh stran; kon'yunktturnyi obzor za 1958 g. i nachalo 1959 g. Moskva, Izd-vo "Pravda," 1959. 127 p. (Prilozhenie k zhurnalu "Mirovaya ekonomika i mezhunarodnye otnosheniya," no.8, avgust 1959 g.) (MIRA 12:9)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhunarodnykh otnosheniy. 2. Kollektiv sotrudnikov kon'yunkturnogo sektora Instituta mirovoy ekonomiki i mezhunarodnykh otnosheniy AN SSSR (for Glushkov, Shvedkova, Sviridova, Chebotareva, Shumilin, Pudina, Bragina, Lutskaya, Kodachenko, Kosova, Moklyarskiy, Grechikhin, Kulikov, Rydvakov, Bel'chuk, Vintser, Rozental', Belous, Sidorov, Zhdanova, Aleksandrovskaya, Koval').

(Economic conditions)